Restriction Endonuclease

SibEnzyme®

Fae I

Recognition Sequence:

CATG↓
↑GTAC

S **E495**
50 units
1,000 u/ml

Lot:
Exp:
Store at -20°C

SE-Buffers	B	G	O	W	Y	ROSE
%Activity	25-50	50-75	10-25	10-25	75-100	100

37°C 65°C Fae I pUC19 BSA

For more details scen the code

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CERTIFICATE OF ANALYSIS

Source: *Flavobacterium aquatile N3.*

Supplied in:
10 mM Tris-HCl (pH 7.5), 50 mM KCl, 0.1 mM EDTA, 7 mM 2-mercaptoethanol, 200 µg/ml BSA, 50% glycerol.

Reaction Conditions:
1X SE-Buffer Fae I, BSA (100µg/ml). Incubate at 37° C.

1X SE-Buffer Fae I (pH 8.3 @ 25° C):
33 mM Tris-Ac 66 mM KAc
10 mM MgAc 1 mM DTT

Heat Inactivation:
Enzyme is inactivated by incubation at 65°C for 20 minutes.

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg of pUC19 DNA in 1 hour at 37° C in a total reaction volume of 50 µl. To obtain 100% activity, BSA should be added the 1x reaction mix to a final concentration of 100 µg/ml.

Quality Control Assays
Ligation: After 3-fold overdigestion with Fae I, 90% of the DNA fragments can be ligated with T4 DNA Ligase and recut.

16-Hour Incubation: A 50 µl reaction containing 1 µg of DNA and 2 Units of enzyme incubated for 16 hours resulted in the same pattern of DNA bands as a reaction incubated for 1 hour.
Do not use BSA for long incubation.

Oligonucleotide Assay: No detectable degradation of a single-stranded and double-stranded oligonucleotide was observed after incubation with 1 units of restriction endonuclease for 3 hours.

Enzyme Properties:
When using a buffer other than the optimal (Supplied) SE-Buffer, it may be necessary to add more enzymes to achieve complete digestion.

Reagents Supplied with Enzyme:
10X SE Buffer Fae I, BSA (10mg/ml).

Blocked by C^{m}ATG methylation.